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File: DWPI

Aug 10, 1988

DERWENT-ACC-NO: 1988-222012

DERWENT-WEEK: 198832

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TITLE: Forming gas flushed sealed packet for food, etc. - by clamping flexible container with prod., reducing external pressure to inflate container, piercing wall and injecting gas

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PATENT-ASSIGNEE:

ASSIGNEE

CODE

GRACE & CO W R

GRAC

PRIORITY-DATA: 1987US-0011796 (February 6, 1987)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
GB 2200614 A	August 10, 1988		017	
AU 8811331 A	August 11, 1988		000	
BR 8800472 A	September 20, 1988		000	
CA 1283347 C	April 23, 1991		000	
US 4779398 A	October 25, 1988		008	
ZA 8800741 A	August 17, 1988		000	

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
GB 2200614A	February 1, 1988	1988GB-0002137	
US 4779398A	February 6, 1987	1987US-0011796	
ZA 8800741A	February 2, 1988	1988ZA-0000741	

INT-CL (IPC): A23B 0/00; B65B 31/08

ABSTRACTED-PUB-NO: GB 2200614A

BASIC-ABSTRACT:

Flexible container loaded with a prod. has its neck clamped, the pressure external to the container is reduced, so that the container inflates, one wall of the container is pierced as it separates from the other on inflation, and gas is injected into the container through the pierced opening before the container is sealed between the pierced opening and the prod.

USE/ADVANTAGE - Packaging shredded cheese, chopped meat, bakery prods, and other prod. whose storage life is extended by packing in an oxygen free inert gas atmos. Provides a simple appts. which produces a package in which the package is not subject to a signi-ficant pressure differential between the inside and the outside of the package and therefore no pressure is exerted on the package contents.

ABSTRACTED-PUB-NO:

US 4779398A

EQUIVALENT-ABSTRACTS:

Gas flushed packages are made by lowering the pressure outside a filled container

which is clamped by the neck, piercing the wall in the neck region and allowing air to escape before injecting gas into the container. The container may be passed to remove air. Gas is pref. injected using sharpened nozzles. USE/ADVANTAGE - Useful for packaging chopped cheese or meat, bakery prods., etc. The contents of the package are not crushed or compressed by pressure differential.

(8pp)

CHOSEN-DRAWING: Dwg.0/8

TITLE-TERMS: FORMING GAS FLUSH SEAL PACKET FOOD CLAMP FLEXIBLE CONTAINER PRODUCT
REDUCE EXTERNAL PRESSURE INFLATE CONTAINER PIERCE WALL INJECTION GAS

DERWENT-CLASS: A92 D14 Q31

CPI-CODES: A11-B08B; A11-C01A1; A12-P02; D03-K08;

POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:

Key Serials: 0223 0229 2341 2349 2359 2370 3241 2628 2776 2780

Multipunch Codes: 014 03- 371 373 381 385 454 54& 551 560 566 602 633

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1988-099008

Non-CPI Secondary Accession Numbers: N1988-169323

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 (31) 011798

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(51) INT CL⁴
B65B 31/08 31/02

(52) Domestic classification (Edition J):
B8C 40A1 40A6 F12

(56) Documents cited
GB A 2164315 **GB A 2094745** **GB 1508166**
GB 1491671 **GB 1032182** **EP A1 0192347**

(58) Field of search
B8C
 Selected US specifications from IPC sub-class
B65B

(54) **Method and apparatus for making gas flushed packages**

(57) A method and apparatus for making gas flushed packages in a vacuum chamber 7, which includes a bag mouth clamp 14 spaced apart from seal bars 6,6' disposed to transversely seal the bag neck, comprises vertically moveable piercing blade and nozzle assembly 19,20 penetrate the upper wall of the bag neck as the chamber pressure is lowered with the bag mouth held by clamp 14 and the bag "balloons" thereby causing the upper and lower neck walls to separate. Once the bag is pierced and the residual air escapes, a predetermined amount of gas is injected through the nozzle assembly and then the bag is sealed by bars 6,6'. If desired, sufficient gas can be injected to make a pillow pack. In a modification, the nozzle and blade assembly is replaced by a sharpened piercing nozzle 21 (Fig. 6). A heavy chain mail curtain 12 (Figs 7 and 8) may be employed to assist removal of air from the bag.

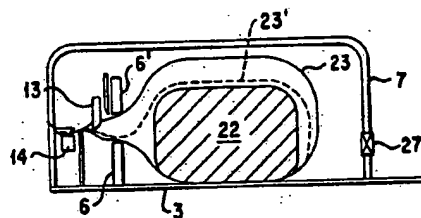


FIG. 4

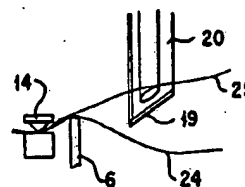


FIG. 5

The drawing(s) originally filed was (were) informal and the print here reproduced is taken from a later filed formal copy.

GB 2 200 614 A